

EE 491 WEEKLY REPORT 10

Project title: Fast, Compact, High, Strength, Magnetic Pulse Generator

Group number: DEC1622

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Client &/Advisor: Mani Mina, Neelam Prabhu Gaunkar

Date: 4th April 2015

Team Leader: Wei Shen Theh

Team Webmaster: Wing Yi Lwe

Team Communication Leaders: Jia yu Hong

Key Concept Holder: Aqila-Sarah Zulkifli

Weekly Summary

For this week, we spent some time simulating new designs. The team is still looking for a way to further shorten the period of the output pulse and is hoping to find the answer in the form of a new design. Also, the MOSFET the team initially used had ran out of stock in Digikey so the team is also looking for good alternatives.

The team is also working on our Project Plan 2 for submission. Learning layout is also another priority for the week.

Past week accomplishments

We searched for new components on the digikey website for a p channel MOSFET and n channel MOSFETs. After that, we imported the parts library to Spice and simulated our new design circuit. However, it did not work like we expected so we tried to change different variables parameters to understand the new circuit's real performance. We revised our project plan 1 according to the feedback given in order to prepare for project plan 2.

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Wei Shen Theh	Work on simulations, project plan	5	47
Wing Yi Lwe	Continued with simulations, worked on project plan 2, helped with the weekly report	5	38
Jiayu Hong	simulation for new design, work on project plan 2, made sure members contributed on the weekly report and submitted the report	5.5	38.5
Aqila-Sarah Zulkifli	Tried simulation using new circuit, prepared presentation slides and helped with the weekly report	5	36

Summary of weekly advisor meeting

Our advisor meeting this week with Neelam discussed on our design document and contents for the project plan 2 assignment. We are hastingly trying new circuits and comparing them to our previous circuits to see if we get better results. Our plan is to make a good design so that we can make a layout of it as soon as possible and begin fabrication and testing.

Plan for coming week

Our plan for this coming week is to finish our project plan 2 which is due on Tuesday, April 3. We have not had the chance to contact Mr. Lee Harker last week since we are all quite busy with the project plan 2. We will also try to finish up our new simulation. Other than that, we will be having our regular group meeting on Monday and Friday evening to discuss more about the project.